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**HAVANA K AWS DEVOPS ENGINEER**

**901-860-4923 ||** **bhavanak691@gmail.com**

**PROFESSIONAL SUMMARY:**

* Around 7 years of IT professional experience which includes **Linux/Unix** Systems Administration, **DevOps** Administrator, **AWS** DevOps Engineer and Cloud Management in all phases of Agile and **SDLC**, understanding the business needs of the applications.
* **DevOps** Administrator with work experience in **DevOps, Amazon Web Service (AWS)**, Cloud Computing, Administration and Virtualization, Continuous Integration, **Oracle Solaris, Red Hat Enterprise Linux**, LDAP User and systems Security management, Storage Management, Security, Virtualization and Performance Management and Networking.
* Expertise with **IPSec, VPN, Load Balancing, Routing Protocols, SSH, SSL,** Network Monitoring / Troubleshooting tools.
* Expertise in installing, configuring, maintaining and admin various version control systems like **Bitbucket, Subversion**, **GITHub, TFS** on **Linux, UNIX** and Windows environment.
* Integration, deployment and automation of application servers like **Tomcat, Web Logic** across **Linux** platforms.
* Managed storage in **AWS** using **Elastic Block Storage, S3,** created Volumes and configured **Snapshots.**
* Involved in designing and deploying multitude applications utilizing almost all the **AWS stack** (Including **EC2, Route53, S3, SNS, SQS, IAM**) focusing on high-availability, fault tolerance, and **auto-scaling** in **AWSCloud formation.**
* Experience in Designing, Architecting and implementing scalable cloud-based web applications using **AWS** and **GCP**.
* Configured**JENKINS** Monitor, List and Build views to displays the status and progress of selected jobs with build version information.
* Automated application deployment in the cloud using **Docker** technology using Elastic Container Service scheduler.
* Managed **Kubernetes** using **helm** charts.
* Experienced in setting up **Chef infrastructure, bootstrapping nodes**, creating and uploading recipes.**Chef** for server provisioning and infrastructure automation, release automation and deployment automation, Configure files, commands, and packages.
* Experienced in writing **Terra form** scripts for creating fault tolerant and highly scalable cloud environments (in **AWS/AZURE**) and developed and maintained Cloud Formation JSON Templates for automating the provisioning of AWS resources **(IAM, EC2, S3, SNS, RDS, ELB and Auto Scaling)** and installed workstations.
* Skillful in dealing with **Microsoft Azure** Services like PaaS (**Azure Web Apps, Web Roles, Worker Roles, SQL), IaaS (Virtual Networks, VPN, Resource Groups, Load Balancing, Application Gateways, Auto scaling)** and worked on storages. Well experienced in deployment, **configuration management** and **Virtualization.**
* Extensive experience with software Build automation and standardization tools like **ANT, Maven**
* Experience in migrating on-premises applications to **Azure**and configured VNETs and subnets as per the project requirement.
* Good knowledge in relational and **NoSQL** databases like **MySQL, SQL, PostgreSQL, Oracle, Aurora, DynamoDB** and **MongoDB.**
* Good knowledge and hands-on Experience in some monitoring tools like **Splunk, Nagios.**
* Designed **Azure** Resource Manager Template and extensive experience in designing custom build steps using **Power Shell.**
* Experienced with deployments, maintenance and troubleshooting applications on Microsoft Cloud infrastructure **Azure.**
* Created **Virtual Machines** through Power Shell script and **Azure Portal.**
* Created and managed a**Docker** deployment pipeline for custom application images in the cloud using **Jenkins.**
* Knowledge and experience in creating Jenkins Pipeline. Set up Continuous Integration for major releases in **Jenkins.**
* Experience in working with automation tools like **CHEF, PUPPET and ANSIBLE.**
* Experience with Configuration Management automation tool **Ansible** and has worked on integrating **Ansible YAML Scripts.**
* Managed **AWS**infrastructure as code using **Terraform.** Expertise in writing new plugins to support new functionality in **Terraform.**
* Experienced with Docker container service and **Docker** applications by creating **Docker images** from **Docker file.**
* Used **Kubernetes** to provide a platform for automating deployment, scaling, and operations of application containers across clusters of hosts. Worked closely with development teams and performance test engineers for **EC2** size optimization and **Docker** build containers.
* Created and managed a**Docker** deployment pipeline for custom application images in the cloud using **Jenkins.**
* Good knowledge on integration of unit tests, code quality analysis tools like JUnit, **SonarQube** and Veracode, **Selenium.**
* Experienced in assisting with design of core scripts to automate **SPLUNK** maintenance and alerting tasks.
* Experienced in Branching, Merging, Tagging, and maintaining version across environments using SCM tools like **GIT** and Subversion (SVN) on Linux platforms and used **GIT**to keep track of all changes in source code.

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| **TECHNICAL SKILLS** |

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| **Languages** | R, SQL, SAS, Python, HTML5, Django. |
| **Scripting** | Python, Unix Shell Scripting, Java script, PHP |
| **Cloud Technologies** | Amazon web services (AWS), Microsoft Azure, Google Cloud Platform (GCP). |
| **CI/CD Tools** | Jenkins, Bamboo, Team City, Octopus Deploy, SonarQube. |
| **Container Tools** | Docker. |
| **Container Orchestration Platform** | Kubernetes, Docker Swarm, OpenShift, Apache Mesos. |
| **Build/Automation Tools** | Terraform, Ant, Maven, Gradle, Hudson. |
| **Repository Managers** | Artifactory, Nexus, Jfrog, DockerHub. |
| **Configuration Management Tools** | Ansible, Ansible Tower, Helm, Chef, Puppet, Vagrant, Salt Stack. |
| **Source/Version** | Subversion (SVN), Clear case, GIT, GIT Hub, Bitbucket, Perforce,  |
| **Control Tools** | Code Commit.  |
| **Monitoring Tools** | Nagios, Cloud Watch, ELK Stack, Datadog, AppDynamics, Grafana. |
| **Application Servers** | Apache Tomcat, Apache HTTPD, JBoss, Web Logic, WebSphere. |
| **Web Application Servers** | Apache HTTP, Nginx. |
| **Development Tools** | PyCharm, Visual Studio Code, Spring Tool Suite, PhpMyAdmin. |
| **Database** | Oracle, MySQL, MS SQL, Mongo DB, Hadoop DB, Graph DB. |
| **Networking** | TCP/IP, NFS, DNS, DHCP, SMB, HTTP, HTTPS, SSL, UDP, SMTP, LAN, GPG, AS2 |
| , FTP/TFTP. |
| **Bug/Issue Tracking Tools** | Atlassian Tool Suite Jira, Service Now, HTTP Analyzer, Rally. |

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| **Education** |

**Bachelor of Technology, Computer Science**

**JNTUH** | Hyderabad, INDIA

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|  **Experience & Notable Contributions** |

**AutoZone • Memphis • DevOps Engineer • Jan 2020 – Present**

**Project Description:** AutoZone is a largest retailer of automotive parts across United States; my project with this organization is to Automate and managed processes around development, testing, release, and deployments of AutoZone Commercial Acceleration program applications.

**Responsibilities:**

* Experience in**AWS Cloud** platform and its features which includes **EC2, VPC, AMI, Cloud watch, Elastic Load balancers**, **IAM**, and **AWS S3**.
* Worked on **google cloud platform** (GCP) services like **compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring** and **cloud deployment manager.**
* Implemented server less architecture using **AWS Lambda** with **Amazon S3** and **Amazon Dynamo DB**. Also, migrated 300+ servers from on-premiseto AWS Cloud.
* Experienced in **Amazon EC2** setting up instances and setting up **security groups.**
* Worked on AWS **EBS Volumes**, **Cloud Formation** and **Cloud Watch services**.
* Managed and supported **AWS** Security related issues such as **IAM** and **S3 policies** for user access.
* Configure **AWS VPC** with **public and private subnets.**
* Setting up Internet Gateways for **public subnets** in **VPC.**
* Migrating infrastructure and applications from on premise to cloud and from **Cloud** to **Cloud** such as **AWS** to

 **GCP**.

* Implemented a **CI/CD framework** using **Jenkins, Maven & Art factory** in **Linux environment** and Integration of **Maven/Nexus, Jenkins, Git** and **JIRA.**
* Build **Docker Images** and ran containers in the testing Environment Experience with **Docker Swarm** for orchestration of **Docker** containers.
* Experience in changing over existing **AWS** infrastructure to server less architecture **(AWS Lambda, AWS Kinesis)** through the creation of a server less Architecture using **AWS Lambda, API gateway, Route 53, S3 buckets.**
* Experience in working with **Apache web servers** and **Tomcat application** servers.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using **Ansible playbooks** and has Integrated **Ansible** with **Jenkins**
* Installed and configured **Nginx** as reverse proxy and worked with **SSL configuration** sections in **Nginx.**
* Hands-on experience on **Ansible** and **Ansible Tower** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Installed and configured **Splunk** for log monitoring and forwarded system stats to **Splunk indexer,** created dashboards and alerts using this data.
* Designing and implementing for fully automated server build management, monitoring and deployment By Using DevOps Technologies like **Ansible** and **chef.**
* Experience inAWS**Ansible Python script** to generate inventory and push the deployment to flexible configurations of several servers using **Ansible.**
* Implemented a **Kubernetes Container Orchestration** solution within **AWS**, leveraging **Kops**, which allows easy management, creation, and recovery of **AWS** assets.
* Configured and Managed **Cloud Watch** alarms to monitor resources in **AWS** for Disk, Memory, and CPU utilization.
* Setup **GCP** Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP**cloud **CDN** (content delivery network) to deliver content from **GCP** cache locations drastically improving user experience and latency.
* Integrated Bitbucket with **JIRA** for transition **JIRA** issues from within Bitbucket Server and monitored the **JIRA** issues in Bitbucket Server.
* Worked with development team to migrate **Ant scripts** to **Maven** and Worked on authoring pom.xml files, performing releases with the **Maven** release plugin and managing Maven repositories.
* Created continuous integration system using **Ant, Jenkins, puppet** which is fully automated for faster and flawless deployments.
* Developed automation scripting in **Python** (core) to deploy and manage Java applications across **Linux servers**.
* Experience in working with version control system **GITHUB**.

 **Environment**: AWS,GCP, AZURE, EC2, Load balancer, VPC, AMI, Cloud watch, IAM, AWS S3, AWS Lambda, Security groups, s3, Dynamo DB, Python, Jenkins, Ansible, Maven, GIT , GITHUB, Docker, ANT, Kubernetes, puppet, Apache webserver, Tomcat, YAML scripting, cloud watch, Splunk, Ngnix, python ,JIRA.

**International paper • Memphis • Azure Cloud Engineer • Apr 2018 – Dec 2019**

**Project Description:** International paper is a global pulp and Paper Company they create Packaging products, Pulp for diapers, tissue, white Papers etc. My project with IP is to Implement, automate and monitor AZURE.

**Responsibilities:**

* Developed **Azure** based solution and services like **IaaS** and **PaaS.**
* Designed and configured **Azure Virtual Networks, subnets, Azure** network settings, DHCP address blocks, **DNS** settings, security policies and routing.
* Designed **Vnets** and subscriptions to confirm to **Azure** Network Limits.
* Implemented **Azure AD** using **AD connect, configured SSO** and Multifactor Authentication.
* Implemented and managed on-premises AD synchronization of user data, groups and organizations with **Azure AD** using **Azure tools**.
* Implemented the overall **Azure** environment for clients including server instances, storage instances, site-to-site/point-to-site VPNs and **Azure** Site Recovery for DR/migration
* Deployed **Azure** infrastructure as a code via **Terraform AzureRM** provider, **Azure Repos** and **Azure** pipelines within **Azure DevOps.**
* Designed and built **Azure** hub/spoke network topology for extending on-premise network connectivity and isolating workloads using VPN Gateways, Vnet peering’s, user defined routes via Route tables and **Azure** Firewalls.
* **Azure IaaS, PaaS**, **Azure Security, Azure Networking** - Installation, Configuration and Troubleshooting expertise.
* Managed **Azure APIs** for cloud-to-cloud integrations**.**
* Experienced in **Azure** Monitoring & Management tools and knowledge on **Azure DevOps** using **CI/CD** for Infra Deployment.
* Experience in configuring network devices like routers, Switches, Hubs and troubleshooting **LAN** and **WAN** related problems.
* Experienced in migrating data from the on-premises data store to **Azure cloud platform.**
* Worked with **Terraforms** template-based configuration files to provision, define and configure **Azure** resources and to automate the infrastructure.
* Responsible for monitoring system performance to prevent slowdowns and crashes by examining daily traffic logs and reports or receive direct reports from end users. Developed and deployed solutions in case of any pot
* Created Cache memory on Windows **Azure** to improve the performance of data transfer between **SQL Azure** and **WCF services**.
* Designed **Azure** Resource Manager template and gained experience in designing custom build steps using Power Shell.
* Used **Ansible Playbook**, automated the Build of **Docker Image**, Utilized **Jenkins** to Auto push to **Docker** HUB, Automated the infrastructure, downloaded, and managed **Ansible** roles from **Ansible** Galaxy.
* Developed **Ansible Playbooks** using **YAML** scripts for launching different **vm’s** in **Azure cloud** along with **load balancer.**
* Defined new branching strategy bases on organizations development requirements.
* Created Clusters using **Kubernetes** and worked on creating pods, replication controllers, services, deployments, labels, health checks, and ingress by writing **YAML files**.
* Hands on experience in installation, configuration, supporting and managing Hadoop Clusters using Apache, Cloudera (CDH5).
* Wrote **Ansible playbooks** with **Python SSH** as a wrapper to manage configurations and the test playbooks using **Python**.
* Integrated **Docker** container orchestration framework using **Kubernetes** by creating pods, configure Maps, and deployments.
* Ensured the reliability of applications by creating release branches, development branches using TFS Branching.
* Created Build definition and Release definition for Continuous Integration and Continuous Deployment.
* Ceated **Azure VM’s** and **Azure** backup and also Created storage pools, stripping of disks for **Azure** virtual machines.
* Implemented a **CI/CD** pipeline using **Azure DevOps** (TFS) in both cloud and on-premises.
* Developed **Shell, Python Scripts** used to automate day-to-day administrative tasks and automation of the build and release process.
* Worked with **JIRA** for bug tracking.

**Environment**: Azure, VPC, Azure AD, Azure Tools, DNS, Vnets, , Azure Iaas, Azure Paas , Terraform, Chef, GIT, MySQL, SQL, PostgreSQL, Oracle, Aurora, DynamoDB, MongoDB**,** Jenkins, CI/CD pipeline, Docker, Kubernetes, power shell, YAML scripts, Ruby, Apache 1.3.x, 1.2, 2.x, Oracle 10g, WCF service, Azure Sql , Spring boot, Tomcat server, Python, Power shell, Ansible, Azure portal, JIRA, Nagios.

**TD Bank • New Jersey • AWS DevOps/System Administrator • Jan 2017 - Mar 2018**

**Project Description:** TD Bank is a American national bank which is also a subsidiary of Toronto Dominion Bank, My project with this client is Administration of middleware Web Sphere Application Server and Web Sphere Portal Servers on Linux platforms and also worked in integration Configuration, building, automating, managing, and releasing code from one environment to another environment and deploying to servers.

**Responsibilities:**

* Involved in supporting cloud instances running **Linux** and Windows on **AWS**, experience with Elastic IP, Security Groups and **Virtual Private Cloud** in **AWS**.
* Extensive experience on configuring **Amazon EC2**, **Amazon S3**, **Amazon Elastic Load Balancing IAM** and **Security Groups** in Public and Private.
* Implemented **Shell, Perl** and **Python scripts** for release and build automation. Manipulated and automated scripts to suit the requirements.
* Responsible for daily operations for **Oracle, SQL Server** and **Postgres SQL** databases.
* Installed and configured **Elastic search + Logstash + Kibana**. Audited existing **Elastic search** installations.
* Managed network security using **Load balancer, Auto-scaling, Security groups** and **NACL.**
* Experience in **Python** programming for deployment of Java applications and implementation and automation of **Shell scripts** for release and build automation.
* Experienced in deploying EAR, WAR and JAR, Port lets on to **WebSphere** Portal Server.
* Experience in migrating build.xml into pom.xml to build the applications using **Apache**.
* Administration of middleware **WebSphere** Application Server and **WebSphere** Portal Servers on **Linux** platforms.
* Implemented **Jenkins** Code Deploy plugin to deploy to cloud and used to automate the build process and deploy the application to **Tomcat server**.
* Created Route tables to route the traffic to find whether it is public or private network.
* Used **Chef** for configuration management of hosted Instances within organization, Configuring and Networking of **Virtual Private Cloud (VPC).**
* Responsible for build and deployment automation using **Docker, Kubernetes** containers and Chef.
* Monitored system performance using sar, proof, vmstat, iostat, netstat, **Nagios.**
* Focused on containerization and immutable infrastructure. **Docke**r has been core to this experience, along with **Kubernetes**. Experienced in using **Docker Swarm** and deployed **spring boot** applications.
* Developed container support for cloud environments and Docker. Deployed the applications in **Docker** containers and managed the containers in enterprise level.
* Created **Docker** images using a **Docker file**, worked on **Docker** container snapshots, removing images and managing **Docker** volumes.
* Developed **Chef** Cookbooks to manage system configuration and for **Tomcat, MySQL**, Windows applications and versioned them on **GIT** repositories and Chef Server.
* Scripting of administration tasks using **CLI, Power Shell, Shell** and **Ruby.** Built upstream and downstream jobs in Jenkins to build and deploy onto different environments.

**Environment**: AWS, Amazon EC2, Amazon S3, Amazon Elastic Load Balancing ,IAM, Load balancer, Auto-scaling, Security groups, NACL, Virtual Private Cloud, Shell scripts, Web Scripts, Web Sphere, Linux, Python, Shell, Perl Oracle Sql server, Docker, Chef, Kubernetes, Nagios, Jenkins, Tomcat Server, Kibana Elastic search + Logstash + Kibana.

**SABRE • Dallas, TX • AWS DevOps/System Administrator • Jun 2014 – Dec 2016**

**Project Description:** Our technology and data-driven solutions help our airline, hotel, travel agency and corporate customers grow their businesses and transform the traveler experience. The scale, breadth and depth of our technology is unmatched and sustains a complex industry.

**Responsibilities:**

* Working on **AWS EC2** Instances creation, setting up **AWS VPC**, launching **AWS EC2** instances different kind of private and public subnets based on the requirements for each of the applications.
* Secured the systems with Disk Encryption using the**Ubuntu** Security.
* Analyze and Evaluate Existing Architecture and Design and Configure a complex Network architectures on **AWS Cloud.**
* Interacting with Chief software architect to assist in Setup of Virtual Private Networks in the cloud with strong Network **ACLs** and Security Groups and Firewall policies at both the Subnet and the Instance OS level to host and secure the product.
* Setup monitoring tools to monitor core resources of the products.
* Designing a Back-up solution and a Disaster Recovery for the product and infrastructure in the cloud.
* Analyzing product requirements with the dev team, build cost effective, high available and scalable cloud infrastructure to house and secure the product.
* Configuration and administration of **Load Balancers, Network** and **Auto scaling** for high availability.
* Perform research on new **AWS** resources or tools for recommendations.
* Work with Security Officers to perform security scans.
* Active Directory on **AWS cloud.**
* Working on **AWS Elastic Load Balancing** for deploying applications in high availability.
* Working on **AWS Auto Scaling** for providing high availability of applications and **EC2 instances** based on the load of applications by using **AWS Cloud Watch.**
* Built Jenkins jobs to create AWS infrastructure from GitHub repos.
* Responsible for managing AWS infrastructure provisioning **(S3, ELB, EC2, RDS, IAM, security groups - CIDR's, VCP, NAT)** and deployment and **EC2 Installs** with **CentOS**, **Ubuntu** and **RHEL 6** and Scientific **Linux.**
* Provisioning **Jenkins** environment for continuous integration by easing build and testing tasks for developers.
* Used **Maven** Dependency Management system to deploy the snapshots and release versions of code to the Nexus repository.
* Implemented **Kubernetes** to deploy scale, **load balance**, scale and manage **Docker** containers with multiple names spaced versions.
* Developed **CI/CD** system with **Jenkins** on **Kubernetes**environment, utilized **Kubernetes** and **Docke**r for the runtime environment for the **CI/CD** system to build, Test and Deploy.
* Experience in working with container-based deployments using **Docker**, **Docker images,** Docker file, **Docker Hub,** Docker Compose and Docker repository.
* Created **puppet** modules and manifest files from scratch and experience in editing existing puppet manifests and automated manual installation processes using **puppet.**
* Implemented a Continuous Delivery pipeline with **Docker, Jenkins** and **GitHub** and **AWS AMI's,** whenever a new **GitHub** branch gets started, Jenkins, our Continuous Integration server, automatically attempts to build a new **Docker** container from it, The **Docker** container leverages Linux containers and has the **AMI** baked in.
* Worked on providing **SVN** access permissions to developers and other users to different SVN repositories.

**Environment**: AWS, Amazon EC2, Amazon S3, Amazon Elastic Load Balancing, IAM, ACL, CIDRS, NAT,

Load balancer, Auto-scaling, Security groups, NACL, Virtual Private Cloud, Shell scripts, Web Scripts, Ubuntu, CentOS, RHEL 6,Scientific Linux, Python, Shell, Perl , Oracle Sql server, Maven, Jenkins, Docker, Kubernetes, Puppet, Jenkins, SVN, Tomcat Server.

**Gem Soft Tech Solutions • India • Linux administrator • Apr 2013 – May 2014**

**Project Description:** Gem Soft Tech Solutions is leading web designing and development company which is been having rich experience in building website designs. This organization successfully delivered Responsive websites, e commerce portals, and interactive website designs. As a Linux System my role is to support infrastructure, operating systems, virtual platforms, and applications. Also involved in protecting the integrity and security of the servers, computer systems by following security protocols and practices.

**Responsibilities:**

* Worked on the development of multiple software platforms, tested software products, and reported test results to supervisors.
* Collaborated with colleagues on the creation of a new **SQL data base** in order to increase overall efficiency and transparency.
* Designed web pages and provided beneficial IT support and assistance to other employees; performed other duties as assigned by managers.
* Pro-actively participated in weekly team meetings and conducted reports on the projects' progress.
* Installation, Configuration, and upgrade of **Red Hat Linux, Oracle Linux, Solaris, Windows 2000. 2003/2008** Operating System.
* Automated repetitive tasks deployed critical applications and managed change on several servers using **Puppet.**
* Troubleshooting Network, memory, CPU, swap and File system issues**, TCP/IP, NFS, DNS, SMTP in Linux and Solaris servers.**
* Integration of **Puppet** with **Apache** and developed load testing and monitoring suites in **Python.**
* Perform daily system monitoring, verifying the integrity and availability of all hardware, server resources, systems, and key processes, reviewing system and application logs, and verifying completion of scheduled jobs such as backups.
* Involved in applying patches and packages for **Solaris** and **Linux Servers** with **oracle database** servers.
* Solved tickets related issues, User creation, Accesses, Permissions, file system creations and enable and removing monitoring for file systems.
* Setting up **SAMBA NFS** servers, to Enable Windows & UNIX clients to communicate with **Linux** without the need of additional software on the windows side, Such as NFS clients.
* Creating File systems, Partition and managing disk quotas, System Backup/ Restore both in Linux/Windows platforms.
* Used fiber attached SAN storage to administered **UNIX** systems for clustered **AIX servers** running Dynamic **LPAR's.**
* Wrote Bash and **K shell SCRIPTS** for deploying **SSH KEYS,** Automate Post installation things in **LINUX**, maintain the systems by keeping some scripts in Cron jobs.
* Involved in migration activities using **Red Hat LVM,** Veritas and EMC open migrator.

**Environment**: RedHat Linux, Oracle Linux, Unix, AIX Server, LPAR’s, K-shell scripts, SSH keys, Solaris, Windows 2000 / 2003/2008 Operating System, SQL database, SAMBA NFS, Apache, Puppet, TCP/IP, NFS, DNS, SMTP in Linux and Solaris servers**.**